

JAPANESE MEDICAL MATERIAL

SYPHLOSE

(Bismuth Pyromucate).

5-311

290828

Medical No. 235

6 June 1946

MEDICAL ANALYSIS SECTION

5250th Technical Intelligence Company
APO 500

SYPHLOSE

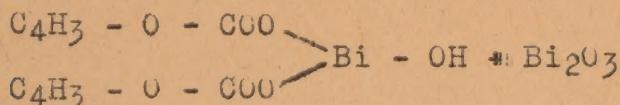
(Bismuth Pyromucate)

SOURCE: Osaka, Japan.

IMPORTANCE: Not previously reported. An organic bismuth complex intended for use as an antiluetic. No identical product is listed in available standard American references.

DESCRIPTION: One cubic centimeter of a viscous, milky-white mixture is contained in a colorless, glass ampul, packaged three per cardboard box.

SUMMARY OF GENERAL INFORMATION: Syphlose is claimed to be an olive oil preparation of bismuth pyromucate, of the following chemical composition:



It is available in 1 cc. and 2 cc. ampuls containing respectively 20% and 10% of the active ingredient.

The advantages claimed for this medicinal are a high bismuth content and good distribution to the spinal fluid. It is also claimed that pyromucic acid is in itself an antiseptic and bactericide.

A translation of the literature enclosed with the product is included with this report and includes its composition, preparation, advantages, references and manufacturer.

This preparation is the only reference to the use of a pyromucic acid derivative for internal administration.

PHOTOGRAPHS:

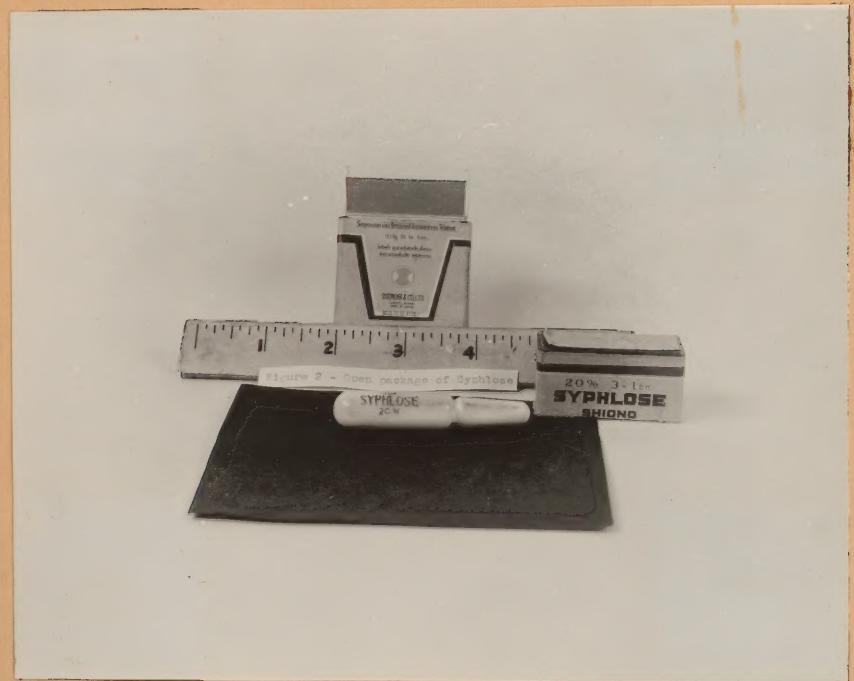
Figure 1.- Closed package of Syphlose

Figure 2 - Open package of Syphlose

Figure 3 - Syphlose literature



Figure 1 - Closed package of Syphlose



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Syphlose

組 成

ビロ粘液酸蒼鉛 $\text{C}_4\text{H}_3\text{OCOO} > \text{Bi-OH} + \text{Bi}_2\text{O}_3$
 $\text{C}_4\text{H}_3\text{OCOO}$
 20% 1cc 又ハ 10% 2cc (金屬蒼鉛各 0.13g 含有)

「比較 1cc 0.03g Bi. : Spirobin-mel(Hornstein) 2cc 0.1g Bi. Oleo-Bi (Roche)

1cc 0.11g Bi.
 製 法 (Bayer)

フルフロールヲ酸化シテビロ粘液酸トシ之ニ水酸化蒼鉛ヲ作用セシメビロ粘液酸蒼鉛トシ之ヲ 10% 又ハ 20% ノ比ニオレーフ油ニ溶解ス

特 故

ビロ粘液酸ノ防腐及殺菌作用ト蒼鉛含量ノ大ナルコトト相俟ツテ完全ナル驅黴作用ヲ有シ抗硫素性スピロヘータ及ビサルバルサン過敏症等ニ對シ偉効ヲ奏シ、且ツ脳背髓液中ニ比較的多量ニ移行セラレ又リボイド可溶性ナレバ注射后吸收迅速ニシテ最モ合理的ニ除々ニ細胞組織ニ移行セラルルヲ以テ特長トス、又本品ハ微細ナルコロイドナルガ故ニ小ナル注射針ニテモ注射可能ナリ

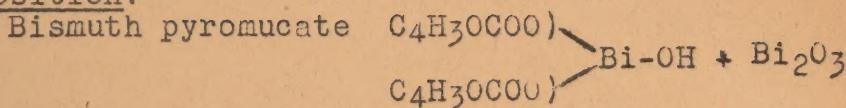
文 獻

日本泌尿器科學會誌第 22 號、治療及處方第 177 號、日新治療第 199 號、實地醫家ト臨牀第 14 卷第 7 號、大阪醫事新誌第 4 卷第 10 號、同第 11 號、ルエス第 10 卷第 2 號、

TRANSLATION OF LITERATURE ACCOMPANYING SYPHLOSE

SYPHLOSE

Composition:



20% - 1 cc. or 10% - 2 cc. (Each contains 0.13 gm. metallic Bismuth)

Comparison:

Spirobismol (Hornstein)	1 cc.	- 0.03 gm Bi
Oleo B (Roche)	2 cc.	- 0.1 gm Bi
Mesurol (Bayer)	1 cc.	- 0.11 gm Bi

Method of Preparation:

Oxidize furfurole to make pyromucic acid and add Bismuth hydroxide, thus forming bismuth pyromucate. Dissolve this at a ratio of 10% to 20% in olive oil.

Advantages:

Syphlose has a perfect antisyphilitic action because of the antiseptic and bactericidal action of pyromucic acid together with the large quantity of Bismuth it contains. It is very effective against arsenic resistant spirochetes and in salvarsan anaphylaxis. Moreover, a comparatively large quantity of it is carried into the cerebrospinal fluid and as it is soluble in lipoid it is absorbed speedily and carried to the cellular tissues rationally and gradually. As this preparation is a fine colloid a small injection needle may be used.

References:

Japan Urology Association Magazine	No. 22
Treatment and Prescription	No. 177
Present Treatment	No. 199
Practising Physicians and Clinics	No. 7 Vol. 14
Osaka Medical Magazine	No. 10 Vol. 4
	No. 11 Vol. 4
Ruesu	No. 2 Vol. 10